I. Historia Plantarum, species hactenus editas aliasque insuper multas noviter inventas & descriptas complettens, &c. Autore Joanne Rajo e Societate Regia. Tomus primus. Londini, 1686. Fol. Apud Henricum Faithorne R. S. Typographum; ad Insigne Rosa in Cameterio D. Pauli.

II. Philosophia Naturalis Principia Mathematica, Autore II. Newton, Trin. Coll. Cantab. Soc. Matheseos Profesfore Lucasiano & Societatis Regalis Sodali. Londini. 4to.

Prostat apud plures Bibliopolas

An Account of a Comet Seen at Lipsick, Sept. 1686. taken from the Lipsick Acta Eruditorum for the Month of November last.

Hat Comets are so frequently seen of late above what has been formerly observed, happens rather from the diligence and number of those that now apply themselves to the study of the Coelestial Motions, than from any casual concourse of those Bodies. That this is fo, may be concluded from the five Comets, that in less than fix years time have been feen to traverse the Heavens. of which yet only the two first (viz. those of 1681 and 1682) by reason of their long tailes were generally regarded. That that appeared in July and August 1683. was not, as I can hear, any where observed in France. that appeared in June 1684 was no where else taken notice of but at Rome: and now this of September 1686. we have no other account of, than this from Lipfiek. The truth is, that where Comets are destitute of a tayle and appear only like an obscure hazie Star, as those of 1683 and 1684 did, they that first discover them had need be well acquainted

quainted with the Constellations (which sew People are,) and must look over the Heavens designedly with great tention, notwithstanding all which 'tis possible for such obscure Stars to pass by unseen.

This Comet was observed at Lipsick by the diligent and accurate Mr. Kirck; in whose Ephemerides for this year there is likewise a brief account thereof; He saw it only twice, viz. on the 8th. and 9th. of September st. vet. 1686.

and observed it as follows.

Sept. 8. 4h mane about day-break, he found the Comet in the Constellation of Leo, to the right hand of the Lucida in Lumbis a (as is conceived, for the Latin Copy is defective in this place) and relembling that Star in colour and magnitude, with a thin and short taile extended upright. Over the Comet in the same verticall was the Star of Bayer, or 21 Tychoni, diffant therefrom by the Micrometer, exactly a degree; and a Line drawn from the lucida in lumbis of to the Comet passed much about half a degree to the right hand of the faid # Leonis. The distance of the Comet from Regulus taken by a Radius was about 17 gr. The next Morning, Sept. 9. the Comet appeared again obscurer and more difficult to observe than before, by reason of the day-light: however, at 35 58 m the diflance thereof from en was found by the Micrometer 2°. 23½ m. and at 4 h 40 m. again 2 gr. 25¾ m. To verifie the Times, the Altitude of the Lucida in Lumbis a was Observed 11 gr. 10min. at 4b. 08m. mane. A right Line drawn by the Comet and the faid & Leonis towards & Leonis, or the the Lucida Colli, left that Star a little to the right The following days being Cloudy no more could be Observed.

This Comet was feen by a Country-man, who first gave notice therof, from the 6t to the 12th of September; the refult of whose Observations is, that the Comet was direct in motion, that it moved about 1½ degree per diem, and that it seemed rather to decrease in Latitude. On the 7th

of Septemb. it was about 24 min. distant from θ Leonis, but its bearing therefrom is not set down. From other parts it is said to have been seen from the first of September, but

nothing observed.

N. B. That this Star & Leonis was then in 9 gr-2 min. of mwith North Latitude 9 gr. 4 1½ min. Whence at the time of the first Observation it may be concluded that the Comet was in 9 gr. 55 of m with North Latitude 9° 15 min. And at the second Observation the Longitude of the Comet will be found about 11 gr. 20 min. in m, with much the same North Latitude as before.

These Observations being so few, do scarce suffice to conclude any thing concerning the preceding or confequent motions of this Comet, which being near the Sun and still approaching him was foon lost in his Beams. It may however ferve one day, when the Theory of Comets shall attain its perfection, to confirm an Hypothesis, and help to ascertain the number of these Heterogeneous Planets, whose frequency makes in more than probable that they have their periodical returns, tho hitherto unknown. And that the Prophecy of Seneca [Erit qui demonstret aliquando in quibus Cometa partibus errent; cur tam seducti a reliquis, quot qualesque sint,] is not wholly to be despaired of, will foon appear, from the accurate Theory of the Comet of 168°, to be found in the incomparable Treatife of M. I/aac Newton, an account whereof is given at the end of this Transaction